

*In the Specification:*

Kindly add the Sequence Listing (55 pages) submitted herewith to the application as filed. This submission is in compliance with the requirements of 37 C.F.R. §1.821 *et seq.*, and does not add new matter.

Kindly replace the paragraph on page 90, lines 13-26 with the following replacement paragraph:

-- More phosphopeptides were found in 3T3-Src (179) than in 3T3-Abl (83), which was consistent with the level of phosphotyrosine detected by western blotting. Substantial overlap was observed between the tyrosine phosphorylation sites found in 3T3-Abl and in 3T3-Src: 62 of the 186 phosphotyrosine sites found in 3T3/Src were also found in 3T3-Abl. The overlap may be attributed to activation of a Src-like kinase in 3T3-Abl cells, which were found to contain IIEDNEpYTAR (SEQ ID NO: 43), the activation loop phosphopeptide from the Src-family members Hck and Lyn, or LIEDNEpYTAR (SEQ ID NO: 44), which is found in other Src-family members such as Fyn, Lck, Src, and Yes. It is clear that at least one Src-family kinase has been activated in 3T3-Abl cells, but we cannot specify the activated enzyme because Src-family kinases are so closely related and these two peptides have identical mass. Some of the phosphotyrosine sites from known cell signaling proteins found in 3T3-Abl and 3T3-Src are shown in Table 5. --

The following marked-up version of this replacement paragraph indicates the amendments made (37 C.F.R. §1.121(b)(1)(ii)):

More phosphopeptides were found in 3T3-Src (179) than in 3T3-Abl (83), which was consistent with the level of phosphotyrosine detected by western blotting. Substantial overlap was observed between the tyrosine phosphorylation sites found in 3T3-Abl and in 3T3-Src: 62 of the 186 phosphotyrosine sites found in 3T3/Src were also found in 3T3-Abl. The overlap may be attributed to activation of a Src-like kinase in 3T3-Abl cells, which were found to contain IIEDNEpYTAR (SEQ ID NO: 43), the activation loop phosphopeptide from the Src-family members Hck and Lyn, or LIEDNEpYTAR (SEQ ID NO: 44), which is found in other Src-family members such as Fyn, Lck, Src, and Yes. It is clear that at least one Src-family kinase has been activated in 3T3-Abl cells, but we cannot specify the activated enzyme because Src-family kinases are so closely related and these two peptides have identical mass. Some of the

phosphotyrosine sites from known cell signaling proteins found in 3T3-Abl and 3T3-Src are shown in Table 5.

Kindly replace Table 5 on page 91 with the following replacement table:

Protein Name†	Abl	Src	Sequence	
<i>Tyrosine kinase</i>				
* Eph receptor A2	•		VLEDDPEATpYTTSGGK	SEQ ID NO: 45
* Eph receptor A4	•	•	VLEDDPEAApYTTR	SEQ ID NO: 46
Eph receptor B3	•		VYIDPFtpYEDPNEAVR	SEQ ID NO: 47
focal adhesion kinase	•	•	THAVSVSETDDpYAEIIDEEDTYTMPSTR	SEQ ID NO: 48
* focal adhesion kinase	•	•	YMEDSTpYpYK	SEQ ID NO: 49
focal adhesion kinase	•		GSIDREDGSFGQPTGNQHIpYQPVGKPDPAAPPK	SEQ ID NO: 50
* hemopoietic cell kinase	•	•	IIEDNEpYTAR	SEQ ID NO: 51
* fer protein kinase		•	QEDGGVpYSSSGLK	SEQ ID NO: 52
* Src		•	LIEDNEpYTAR	SEQ ID NO: 53
<i>Ser/Thr kinase</i>				
cdc2a	•	•	IGEGTpYGVVYK	SEQ ID NO: 54
* DYRK1a	•	•	IYQpYIQSR	SEQ ID NO: 55
DYRK3	•		pYEVLLKIIGKGSFGQVAR	SEQ ID NO: 56
* GSK3 beta	•	•	GEPNVSpYICSR	SEQ ID NO: 57
* HIPK 1	•	•	AVCSTpYLQSR	SEQ ID NO: 58
* HIPK 3	•		TVCSTpYLQSR	SEQ ID NO: 59
* MAPK1	•		VADPDHDTGFLTEpYVATR	SEQ ID NO: 60
* p38 MAP Kinase	•		HTDDEMTGpYVATR	SEQ ID NO: 61
pre-mRNA protein kinase	•	•	LCDFGSASHVADNDITpYLVSR	SEQ ID NO: 62
Cdc42 BP kinase beta		•	LPDFQDSIFepYFNTAPLAHDLTFR	SEQ ID NO: 63
<i>Adaptor</i>				
abl-interactor 1	•		TLEPVKPTVPNDpYMTSPAR	SEQ ID NO: 64
caveolin	•	•	YVDSEGHLPYTVPIR	SEQ ID NO: 65
Cbl-b	•	•	ASQDpYDQLPSSSDGSQAPARPPKPR	SEQ ID NO: 66
DOK1	•	•	TVPPVPQDPLGSPALpYAEPLDSL	SEQ ID NO: 67
DOK1	•	•	IPPGPSQDSVpYSDPLGSTPAGAGEGVHSK	SEQ ID NO: 68
DOK1	•	•	LTDSKEDPIpYDEPEGLAPAPPR	SEQ ID NO: 69
DOK1	•		LKEEGYELPYNPATDDpYAVPPPR	SEQ ID NO: 70
DOK1	•	•	GFSSDTALpYSQVQK	SEQ ID NO: 71
GAB1	•		DASSQDCpYDIPR	SEQ ID NO: 72
p130 Cas	•	•	TQQGLpYQAPGNPQFQSPPAK	SEQ ID NO: 73
p130 Cas	•		VGQGYVYEAQTEQDEpYDTPR	SEQ ID NO: 74
p130 Cas	•	•	EETpYDVPPAFK	SEQ ID NO: 75
PI3K p85 beta subunit	•	•	EYDQLpYEEYTR	SEQ ID NO: 76
SHB adaptor protein	•		VTIADDpYSDPFDK	SEQ ID NO: 77
Shc1	•	•	ELFDDPSpYVNIQNLDK	SEQ ID NO: 78
similar to SHB adapt. pro. B	•	•	LDpYCGGGGGGDPGGGQR	SEQ ID NO: 79
Crk		•	RVPCApYDK	SEQ ID NO: 80
disabled homolog 2	•	•	GPLNGDTpYFGQQFDQLSNR	SEQ ID NO: 81
DOK1	•	•	KPLpYWDLPYGHVQQQLLK	SEQ ID NO: 82
DOK1	•		GLpYDLPQEPR	SEQ ID NO: 83
DOK1	•	•	LKEEGpYELPpYNPATDDpYAVPPPR	SEQ ID NO: 84
HGF reg. tyr. kinase subs.	•		VCEPCpYEQLNK	SEQ ID NO: 85
intersectin 2	•	•	GEPEALpYAAVTK	SEQ ID NO: 86
p130 Cas	•	•	VGQGYVpYEAQTEQDEpYDTPR	SEQ ID NO: 87
p130 Cas	•	•	HPLILAAPPDSPAEDVpYDVPPPAPDLpYDVPPGLR	SEQ ID NO: 88
p130 Cas	•	•	VLPPEVADGSVVDGVPYAVPPPAER	SEQ ID NO: 89
PI3K p85 reg. subunit	•	•	LNEWLGNENTDpYSLVEDDEDLPHHDEK	SEQ ID NO: 90
PLC gamma 1	•	•	IGTAEPDpYGALYEGR	SEQ ID NO: 91
Shc1	•	•	MAGFDGSAWDEEEEEPPDHQpYpYNDFFGK	SEQ ID NO: 92
Src-assoc. adaptor protein	•	•	SVYLQEFQDKGDAEDGDEpYDDPFAGPADTISLASER	SEQ ID NO: 93
Src-assoc. adaptor protein	•	•	IpYQFTAASPK	SEQ ID NO: 94
Src-assoc. adaptor protein	•	•	SQPIDDEIpYEEELPEEEEDTASVK	SEQ ID NO: 95
Stam2	•	•	LVNEAPVYSVpYSK	SEQ ID NO: 96
Wiskott-Aldrich syn.-like	•	•	VIpYDFIEK	SEQ ID NO: 97

† \* indicates activation loop peptides.

• indicates phosphopeptides found in 3T3-Abl or 3T3-Src.

The following marked-up version of this replacement table indicates the amendments made (37 C.F.R. §1.121(b)(1)(ii)):

Protein Name†	Abl	Src	Sequence	
<i>Tyrosine kinase</i>				
* Eph receptor A2	•		VLEDDPEATpYTTSGGK	SEQ ID NO: 45
* Eph receptor A4	•	•	VLEDDPEAApYTTR	SEQ ID NO: 46
Eph receptor B3	•		VYIDPFTpYEDPNEAVR	SEQ ID NO: 47
focal adhesion kinase	•	•	THAVSVSETDDpYAEIIDEEDTYTMPSTR	SEQ ID NO: 48
* focal adhesion kinase	•	•	YMEDSTpYpYK	SEQ ID NO: 49
focal adhesion kinase	•		GSIDREDGSFQGPTGNQHIpYQPVGKPDPAAPPK	SEQ ID NO: 50
* hemopoietic cell kinase	•	•	IIEDNEpYTAR	SEQ ID NO: 51
* fer protein kinase	•	•	QEDGGVpYSSSGLK	SEQ ID NO: 52
* Src	•	•	LIEDNEpYTAR	SEQ ID NO: 53
<i>Ser/Thr kinase</i>				
cdc2a	•	•	IGEGTpYGVVYK	SEQ ID NO: 54
* DYRK1a	•	•	IYQpYIQSR	SEQ ID NO: 55
DYRK3	•		pYEVLKIIGKGSFGQVAR	SEQ ID NO: 56
* GSK3 beta	•	•	GEPNVSpYICSR	SEQ ID NO: 57
* HIPK 1	•	•	AVCSTpYLQSR	SEQ ID NO: 58
* HIPK 3	•		TVCSTpYLQSR	SEQ ID NO: 59
* MAPK1	•		VADPDHDTGFLTEpYVATR	SEQ ID NO: 60
* p38 MAP Kinase	•		HTDDEMTGpYVATR	SEQ ID NO: 61
pre-mRNA protein kinase	•	•	LCDFGSASHVADNDITpYLVSR	SEQ ID NO: 62
Cdc42 BP kinase beta	•	•	LPDFQDSIFepYFNTAPLAHDLTFR	SEQ ID NO: 63
<i>Adaptor</i>				
abl-interactor 1	•		TLEPVKPTVPNDpYMTSPAR	SEQ ID NO: 64
caveolin	•	•	YVDSEGHLPYTVPIR	SEQ ID NO: 65
Cbl-b	•	•	ASQDpYDQLPSSSDGSQAPARPPKPR	SEQ ID NO: 66
DOK1	•	•	TVPPPVPQDPLGSPALpYAEPLDSLRL	SEQ ID NO: 67
DOK1	•	•	IPPGPSQDSVpYSDPLGSTPAGAGEGVHSK	SEQ ID NO: 68
DOK1	•	•	LTDSEKEDPipYDEPEGLAPAPPR	SEQ ID NO: 69
DOK1	•	•	LKEEGYELPYNPATDDpYAVPPPR	SEQ ID NO: 70
DOK1	•	•	GFSSDTALpYSQVQK	SEQ ID NO: 71
GAB1	•		DASSQDCpYDIPR	SEQ ID NO: 72
p130 Cas	•	•	TQQGLpYQAPGPNPQFQSPPAK	SEQ ID NO: 73
p130 Cas	•	•	VGQGYVYEAQTEQDEpYDTPR	SEQ ID NO: 74
p130 Cas	•	•	EETpYDVPPAFK	SEQ ID NO: 75
PI3K p85 beta subunit	•	•	EYDQLpYEEYTR	SEQ ID NO: 76
SHB adaptor protein	•		VTIADDpYSDPFDAK	SEQ ID NO: 77
Shc1	•	•	ELFDDPSpYVNIQNLDK	SEQ ID NO: 78
similar to SHB adapt. pro. B	•	•	LDpYCGGGGGDPGGGQR	SEQ ID NO: 79
Crk	•	•	RVPCApYDK	SEQ ID NO: 80
disabled homolog 2	•	•	GPLNGDTPYFGQQFDQLSNR	SEQ ID NO: 81
DOK1	•	•	KPLpYWDLPYGHVQQQLLK	SEQ ID NO: 82
DOK1	•	•	GLpYDLPEPR	SEQ ID NO: 83
DOK1	•	•	LKEEGpYELPpYNPATDDpYAVPPPR	SEQ ID NO: 84
HGF reg. tyr. kinase subs.	•	•	VCEPCpYEQLNK	SEQ ID NO: 85
intersectin 2	•	•	GEPEALpYAAVTK	SEQ ID NO: 86
p130 Cas	•	•	VGQGYVpYEAQTEQDEpYDTPR	SEQ ID NO: 87
p130 Cas	•	•	HPLILAAPPPDSPAEDVpYDVPPPAPDLpYDVPPGLR	SEQ ID NO: 88
p130 Cas	•	•	VLPPEVADGSVVDDGpYAVPPPAER	SEQ ID NO: 89
PI3K p85 reg. subunit	•	•	LNEWLGNENTEDQpYSLVEDDEDLPHHDEK	SEQ ID NO: 90
PLC gamma 1	•	•	IGTAEPDpYGALYEGR	SEQ ID NO: 91
Shc1	•	•	MAGFDGSAWDEEEEPDHQpYpYNDFFPGK	SEQ ID NO: 92
Src-assoc. adaptor protein	•	•	SVYLQEFQDKGDAEDGDEpYDDPFAGPADTISLASER	SEQ ID NO: 93
Src-assoc. adaptor protein	•	•	IpYQFTAASPK	SEQ ID NO: 94
Src-assoc. adaptor protein	•	•	SQPIDDEIpYEEELPEEEEDTASVK	SEQ ID NO: 95
Stam2	•	•	LVNEAPVYSVpYSK	SEQ ID NO: 96
Wiskott-Aldrich syn.-like	•	•	VlpYDFIEK	SEQ ID NO: 97

† \* indicates activation loop peptides.

• indicates phosphopeptides found in 3T3-Abl or 3T3-Src.

Kindly replace Table 6, spanning pages 125 and 126, with the following replacement table:

Protein Name†	K§	S§	Sequence
<i>Tyrosine kinase</i>			
activated p21cdc42Hs kinase		• KPTpYDPVSEDQDPLSSDFK	SEQ ID NO: 98
anaplastic lymphoma kinase		• HQELQAMQMELQSPepYK	SEQ ID NO: 99
anaplastic lymphoma kinase	•	• TSTIMTDpYNPNpYCFAGK	SEQ ID NO: 100
anaplastic lymphoma kinase	•	• GLGHGAFGEVpYEGQVSGMPNDPSPLQVAVK	SEQ ID NO: 101
anaplastic lymphoma kinase	•	• NKPTSLWNPTpYGSWFTEK	SEQ ID NO: 102
anaplastic lymphoma kinase	•	• HFPCGNVNPpYGYQQQLPLEAATAPGAGHYEDTILK	SEQ ID NO: 103
Janus kinase 3	•	• DLNSLISSDpYELLSDP TP GALAPR	SEQ ID NO: 104
<i>Ser/Thr kinase</i>			
cdc2	•	• IGEGTpYGVVYK	SEQ ID NO: 105
cdc2	•	• IGEGTYGVVpYK	SEQ ID NO: 106
DYRK1A	•	• VYNDGYDDDNpYDIYVK	SEQ ID NO: 107
*DYRK1A	•	• IYQpYIQSR	SEQ ID NO: 108
DYRK3	•	• pYEVLKIIGKGSFGQVAR	SEQ ID NO: 109
*ERK2	•	• VADPDHDHTGFLTEpYVATR	SEQ ID NO: 110
*GSK3 alpha	•	• GEPNVSpYICSR	SEQ ID NO: 111
*HIPK 1	•	• AVCSTpYLQSR	SEQ ID NO: 112
*p38 alpha MAPK	•	• HTDDEMTGpYVATR	SEQ ID NO: 113
*PRP4K	•	• LCDFGSASHVADNDITpYLVSR	SEQ ID NO: 114
<i>Adaptor</i>			
CD2-associated protein	•	• ISTpYGLPAGGIQPHQTK	SEQ ID NO: 115
dok2	•	• GQEGEpYAVPFDAVAR	SEQ ID NO: 116
HGF reg. tyr. kinase subs.	•	• VCEPCpYEQLNLR	SEQ ID NO: 117
insulin receptor substrate 1	•	• LEpYYENEK	SEQ ID NO: 118
insulin receptor substrate 1	•	• VDPNGpYMMMSPPSGGCSPDIGGGPSSSSSSNAVPSGTSYGK	SEQ ID NO: 119
intersectin 2 isoform 1	•	• REEPEALpYAAVNK	SEQ ID NO: 120
Oncogene CBL2	•	• IKPSSSANAipYSLAAR	SEQ ID NO: 121
SHC	•	• MAGFDGSAWDEEEEEPPDHQpYpYNDFP GK	SEQ ID NO: 122
SHC	•	• ELFDDPSPYVNVQNL DK	SEQ ID NO: 123
SHP2	•	• IQNTGDpYYDLYGGEK	SEQ ID NO: 124
T lymphocyte adaptor	•	• SCQNLGpYTAASPAEAASSTGNAER	SEQ ID NO: 125
T lymphocyte adaptor	•	• SQDPNPQpYSPIIK	SEQ ID NO: 126
T lymphocyte adaptor	•	• GSPGEAPSNipYVEVEDEGLPATLGHPVLR	SEQ ID NO: 127
Wiskott-Aldrich syn. protein	•	• LipYDFIEDQGGLEAVR	SEQ ID NO: 128

† \* indicates activation loop peptides.

§ "K" indicates peptide found in Karpas 299, "S" in SU-DHL-1.

• indicates phosphopeptides found in Karpas 299 or SU-DHL-1.

The following marked-up version of this replacement table indicates the amendments made (37 C.F.R. §1.121(b)(1)(ii)):

Protein Name†	K§	S§	Sequence
<i>Tyrosine kinase</i>			
activated p21cdc42Hs kinase		• KPTpYDPVSEDQDPLSSDFK	<u>SEQ ID NO: 98</u>
anaplastic lymphoma kinase		• HQELQAMQMELQSPepYK	<u>SEQ ID NO: 99</u>
anaplastic lymphoma kinase	•	• TSTIMTDpYNPNpYCFAGK	<u>SEQ ID NO: 100</u>
anaplastic lymphoma kinase	•	• GLGHGAFGEVpYEGQVSGMPNDPSPLQVAVK	<u>SEQ ID NO: 101</u>
anaplastic lymphoma kinase	•	• NKPTSLWNPTpYGSWFTEK	<u>SEQ ID NO: 102</u>
anaplastic lymphoma kinase	•	• HFPCGNVNPpYGYQQQLPLEAATAPGAGHYEDTILK	<u>SEQ ID NO: 103</u>
Janus kinase 3	•	• DLNSLISSDpYELLSDP TP GALAPR	<u>SEQ ID NO: 104</u>
<i>Ser/Thr kinase</i>			
cdc2	•	• IGEGTpYGVVYK	<u>SEQ ID NO: 105</u>
cdc2	•	• IGEGTYGVVpYK	<u>SEQ ID NO: 106</u>
DYRK1A	•	• VYNDGYDDDNpYDIYVK	<u>SEQ ID NO: 107</u>
*DYRK1A	•	• IYQpYIQSR	<u>SEQ ID NO: 108</u>
DYRK3	•	• pYEVLKIIGKGSFGQVAR	<u>SEQ ID NO: 109</u>
*ERK2	•	• VADPDHDHTGFLTEpYVATR	<u>SEQ ID NO: 110</u>
*GSK3 alpha	•	• GEPNVSpYICSR	<u>SEQ ID NO: 111</u>
*HIPK 1	•	• AVCSTpYLQSR	<u>SEQ ID NO: 112</u>
*p38 alpha MAPK	•	• HTDDEMTGpYVATR	<u>SEQ ID NO: 113</u>
*PRP4K	•	• LCDFGSASHVADNDITpYLVSR	<u>SEQ ID NO: 114</u>

**Adaptor**

CD2-associated protein	•	ISTpYGLPAGGIQHPQTK	SEQ ID NO: 115
dok2	•	GQEGEPYAVPFDVAR	SEQ ID NO: 116
HGF reg. tyr. kinase subs.	•	VCEPCpYEQLNR	SEQ ID NO: 117
insulin receptor substrate 1	•	LEpYYENEK	SEQ ID NO: 118
insulin receptor substrate 1	•	VDPNGpYMMMSPPSGGSPDIGGGPSSSSSSSSNAVPSGTSYGK	SEQ ID NO: 119
intersectin 2 isoform 1	•	REEPEALpYAAVVK	SEQ ID NO: 120
Oncogene CBL2	•	IKPSSSANAIPYSLAAR	SEQ ID NO: 121
SHC	•	MAGFDGSAWDEEEEEPPDHQpYpYNDPFGK	SEQ ID NO: 122
SHC	•	ELFDDPSpYVNVQNLDK	SEQ ID NO: 123
SHP2	•	IQNTGDpYYDLYGGEK	SEQ ID NO: 124
T lymphocyte adaptor	•	SCQNLGpYTAASPAPEAASSTGNAER	SEQ ID NO: 125
T lymphocyte adaptor	•	SQDPNPQpYSPiIK	SEQ ID NO: 126
T lymphocyte adaptor	•	GSPGEAPSNipYVEVEDEGLPATLGHVPVLR	SEQ ID NO: 127
Wiskott-Aldrich syn. protein	•	LpYDFIEDQGGLEAVR	SEQ ID NO: 128

‡ \* indicates activation loop peptides.

§ "K" indicates peptide found in Karpas 299, "S" in SU-DHL-1.

• indicates phosphopeptides found in Karpas 299 or SU-DHL-1.

Kindly replace Table 7, spanning page 128 and 129, with the following replacement table:

Protein Name‡	TCR	Sequence	
<b>Tyrosine kinase</b>			
* ephrin receptor EphA4		VLEDDPEAApYTTR	SEQ ID NO: 129
* fer tyrosine kinase		QEDGGVpYSSSGLK	SEQ ID NO: 130
oncogene LCK	Yes	NLDNGGFpYISPR	SEQ ID NO: 131
* oncogene LCK	Yes	LIEDNEpYTAR	SEQ ID NO: 132
oncogene LCK	Yes	SVLEDDFTATEGQpYQPQP	SEQ ID NO: 133
ZAP-70	Yes	IDTLNSDGpYTPEPAR	SEQ ID NO: 134
ZAP-70	Yes	PMPMDTSVpYESpYSDPEELK	SEQ ID NO: 135
* ZAP-70	Yes	ALGADDSpYpYTAR	SEQ ID NO: 136
<b>Ser/Thr kinase</b>			
cdc2		IGEGTpYGVVYK	SEQ ID NO: 137
cdk6		ADQQpYECVAIEGEGApYGK	SEQ ID NO: 138
* GSK3 alpha		GEPNVSpYICSR	SEQ ID NO: 139
myosin light chain kinase 1		QEGSIEVpYEDAGSHpYLCLLK	SEQ ID NO: 140
* p38 alpha MAPK	Yes	HTDDEMTGpYVATR	SEQ ID NO: 141
* PRP4K		LCDFGSASHVADNDITpYLVSr	SEQ ID NO: 142
<b>Adaptor</b>			
abl-interactor 1		TLEPVKPTVPNDpYMTSPAR	SEQ ID NO: 143
Arrestin beta 2		GMKDDDPYDDQLC	SEQ ID NO: 144
erbB2-interacting protein		SATLLpYDQPLQVFTGSSSSSDLSGTK	SEQ ID NO: 145
erbB2-interacting protein		GPTSGPQSAPQIpYGPpQYNIQpYSSSAVK	SEQ ID NO: 146
erbB2-interacting protein		AQIEGDPYLSpYR	SEQ ID NO: 147
intersectin 2 isoform 1		REEPEALpYAAVVK	SEQ ID NO: 148
LAIR-1		ETDTSALAAGSSQEVTPYAQLDHWALTQR	SEQ ID NO: 149
NCK adaptor protein 1		LpYDLNMPAYVK	SEQ ID NO: 150
p62dok1	Yes	IAPCPSQDSLpYSDPLDSTSAQAGEGVQR	SEQ ID NO: 151
p62dok1	Yes	EDPipYDEPEGLAPVPPQGLpYDLPR	SEQ ID NO: 152
p62dok1	Yes	VKEEGpYELPYNPATDDpYAVPPPR	SEQ ID NO: 153
phosprot. assoc. GEM		ENDpYESISDLQQR	SEQ ID NO: 154
"phospholipase C, gamma 1"	Yes	IGTAEPDPYGalpYEGR	SEQ ID NO: 155
"phospholipase C, gamma 1"	Yes	NPGFpYVEANMPMTFK	SEQ ID NO: 156
"phospholipase C, gamma 2"		DINSLpYDVSR	SEQ ID NO: 157
"phospholipase C, gamma 2"		RQEELNNQLFLpYDTHQNLr	SEQ ID NO: 158
SHC	Yes	ELFDDPSpYVNVQNLDK	SEQ ID NO: 159
SHP2 interacting tm adaptor	Yes	SGESVEEVPLpYGNLHpYLQTGR	SEQ ID NO: 160
SHP2 interacting tm adaptor	Yes	SQASGPELPYASVCAQTR	SEQ ID NO: 161
SHP2 interacting tm adaptor	Yes	ASFPDQApYANSQPAAS	SEQ ID NO: 162
Wiskott-Aldrich syn. protein		LpYDFIEDQGGLEAVR	SEQ ID NO: 163

‡ \* indicates activation loop peptides.

TCR indicates proteins with known roles in T cell receptor signaling.

The following marked-up version of this replacement table indicates the amendments made (37 C.F.R. §1.121(b)(1)(ii)):

Protein Name†	TCR	Sequence	
<i>Tyrosine kinase</i>			
* ephrin receptor EphA4		VLEDDPEAApYTTR	<a href="#">SEQ ID NO: 129</a>
* fer tyrosine kinase		QEDGGVpYSSSGLK	<a href="#">SEQ ID NO: 130</a>
oncogene LCK	Yes	NLDNGGFpYISPR	<a href="#">SEQ ID NO: 131</a>
* oncogene LCK	Yes	LIEDNEpYTAR	<a href="#">SEQ ID NO: 132</a>
oncogene LCK	Yes	SVLEDDFFTATEGQpYQPQP	<a href="#">SEQ ID NO: 133</a>
ZAP-70	Yes	IDTLNSDGpYTPEPAR	<a href="#">SEQ ID NO: 134</a>
ZAP-70	Yes	PMPMDTSVpYESPpYSDPEELK	<a href="#">SEQ ID NO: 135</a>
* ZAP-70	Yes	ALGADDSpYpYTAR	<a href="#">SEQ ID NO: 136</a>
<i>Ser/Thr kinase</i>			
cdc2		IGEGTpYGVVYK	<a href="#">SEQ ID NO: 137</a>
cdk6		ADQQpYECVAIEGApYGK	<a href="#">SEQ ID NO: 138</a>
* GSK3 alpha		GEPNVSpYICSR	<a href="#">SEQ ID NO: 139</a>
myosin light chain kinase 1		QEGSIEVpYEDAGSHpYLCLLK	<a href="#">SEQ ID NO: 140</a>
* p38 alpha MAPK	Yes	HTDDEMTGpYVATR	<a href="#">SEQ ID NO: 141</a>
* PRP4K		LCDFGSASHVADNDITPpYLVSR	<a href="#">SEQ ID NO: 142</a>
<i>Adaptor</i>			
abl-interactor 1		TLEPVKPTVPNDpYMTSPAR	<a href="#">SEQ ID NO: 143</a>
Arrestin beta 2		GMKDDDPYDDQLC	<a href="#">SEQ ID NO: 144</a>
erbb2-interacting protein		SATLLpYDQPLQVFTGSSSSSDISGTK	<a href="#">SEQ ID NO: 145</a>
erbb2-interacting protein		GPTSGPQSAPQlpYGPQYNIQpYSSSAAVK	<a href="#">SEQ ID NO: 146</a>
erbb2-interacting protein		AQIPEGDpYLSpYR	<a href="#">SEQ ID NO: 147</a>
intersectin 2 isoform 1		REEPEALpYAAVNK	<a href="#">SEQ ID NO: 148</a>
LAIR-1		ETDTSALAAGSSQEVTPYAQLDHWALTQR	<a href="#">SEQ ID NO: 149</a>
NCK adaptor protein 1		LpYDLNMPAYVK	<a href="#">SEQ ID NO: 150</a>
p62dok1	Yes	IAPCPSQDSLpYSDPLDSTSAQAGEGVQR	<a href="#">SEQ ID NO: 151</a>
p62dok1	Yes	EDPpYDEPEGLAPVPPQGLpYDLPR	<a href="#">SEQ ID NO: 152</a>
p62dok1	Yes	VKEEGpYELPYNPATDDpYAVPPPR	<a href="#">SEQ ID NO: 153</a>
phosprot. assoc. GEM		ENDpYESISDLQQGR	<a href="#">SEQ ID NO: 154</a>
"phospholipase C, gamma 1"	Yes	IGTAEPDpYGALpYEGR	<a href="#">SEQ ID NO: 155</a>
"phospholipase C, gamma 1"	Yes	NPGFPYVEANPMPTEFK	<a href="#">SEQ ID NO: 156</a>
"phospholipase C, gamma 2"		DINSLpYDVSR	<a href="#">SEQ ID NO: 157</a>
"phospholipase C, gamma 2"		RQEELNNQLFLpYDTHQNLR	<a href="#">SEQ ID NO: 158</a>
SHC	Yes	ELFDDPSpYVNVQNLDK	<a href="#">SEQ ID NO: 159</a>
SHP2 interacting tm adaptor	Yes	SGESVEEVPLpYGNLHpYLQTGR	<a href="#">SEQ ID NO: 160</a>
SHP2 interacting tm adaptor	Yes	SQASGPEPELpYASVCAQTR	<a href="#">SEQ ID NO: 161</a>
SHP2 interacting tm adaptor	Yes	ASFPDQApYANSQPAAS	<a href="#">SEQ ID NO: 162</a>
Wiskott-Aldrich syn. protein		LpYDFIEDQGGLEAVR	<a href="#">SEQ ID NO: 163</a>

† \* indicates activation loop peptides.

TCR indicates proteins with known roles in T cell receptor signaling.